

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (canceled).
2. (currently amended): System according to ~~claim 1~~ claim 16, also including means (RIR) of inputting the control signals that can be routed on the service network.
3. (currently amended): System according to ~~claim 1~~ claim 16, also including connection means (RJ) on which the signal sources can be connected to send the signals and to receive the control signals on the service network.
4. (currently amended): System according to ~~claim 1~~ claim 16, also including input modulators (MDL) associated with corresponding connection means (RJ) to modulate the source signals to be routed on the service network.
5. (currently amended): System according to ~~claim 1~~ claim 16, also including coaxial cable terminals (F) on which a coaxial cable (CX) leading to a TV receiver (TV1, TV2, TV3, TV4) can be connected.

6. (currently amended): System according to ~~claim 1~~ claim 16, also including adapters (BL) associated with coaxial terminals (F) to adapt a processed signal output from the distribution network to be routed on a coaxial cable.

7. (currently amended): System according to ~~claim 1~~ claim 16, also including multiplexing means (MX, mxs) to multiplex the control signals on the service network and to multiplex the modulated TV signals on the distribution network.

8. (currently amended): System according to ~~claim 1~~ claim 16, also including a processing unit (U1) to process the multiplexed modulated signals output from the service network so as to route them on the distribution network.

9. (currently amended): System according to ~~claim 1~~ claim 16, also including processing means (ut) for individually processing the modulated signals output from the service network before routing them to multiplexing means (MX).

10. (original): System according to claim 7, in which the multiplexing means (mxs) multiplex the control signals output from the service network to reinject them onto the service network.

11. (currently amended): System according to ~~claim 1~~ claim 16, in which the control signal input means include a wave receiver (RIR) associated with a remote control (TC1, TC2, TC3, TC4).

12. (currently amended): System according to ~~claim 1~~ claim 16, including a box integrating:

- a- the input modulators (MDL) associated with corresponding connection means (RJ) to modulate signals output from sources,
- b- output adapters (BL) associated with corresponding coaxial terminals (F) to adapt the signal output from the distribution network,
- c- means (RIR) of inputting control signals that can be routed on the service network,
- d- connection means (RJ) onto which signal sources can be connected to send video signals and to receive control signals on the service network,
- e- coaxial cable terminals (F) to which a coaxial cable (CX) connecting to a TV receiver can be connected, and
- f- means (CPT) of connection to the distribution network and the service network.

13. (currently amended): System according to ~~claim 1~~ claim 16, in which the distribution network and the service network are formed from a single previously installed network of cables consisting of twisted wire pairs (PT).

14. (currently amended): System according to ~~claim 1~~ claim 16, in which the multiplexing means (MX, mxs) are also connected to external video signal sources (ANT, PRB, TS1, TS2) processed later in the processing unit (U1) so that they can be transferred onto the distribution network.

15. (original): System according to claim 14, in which the external sources include antennas (ANT, PRB) and / or satellite terminals (TS1, TS2).

16. (currently amended): System for distribution of audio/video signals, comprising:
audio or video signal sources;
audio or video signal receivers;
a central processing and multiplexing unit; and
a twisted pairs network comprising ~~four~~ two pairs of twisted wires;
wherein one pair of the twisted pairs network is a service pair that routes source signals and control signals to the central processing and multiplexing unit; ~~and~~
wherein a different pair of the twisted pairs network is a distribution pair that routes multiplexed processed signals from the central processing and multiplexing unit to the receivers;
wherein the service pair carries up signals, the up signals being the sources signals derived from the sources and the control signals;
wherein the distribution pair carries down signals, the down signals being the multiplexed processed signals; and
the up signals and the down signals are carried separately by the service pair and the distribution pair, respectively.

17. (new): System according to claim 16, wherein the service pair and the distribution pair carry both audio and video type signals.

18. (new): System according to claim 16, wherein each signal source and each signal receiver are connected to the central processing and multiplexing unit via the twisted pairs network comprising the two pairs of twisted wires.

19. (new): System according to claim 18, wherein the twisted pairs network comprises only of the two pairs of twisted wires.

20. (new): System according to claim 16, wherein each signal source and each signal receiver are directly connected to the central processing and multiplexing unit via the twisted pairs network comprising the two pairs of twisted wires.

21. (new): System according to claim 16, wherein the service pair carries the control signals input from a control signal input means corresponding to a signal receiver to a signal source through the central processing and multiplexing unit, and carries a source signal from a signal source to the central processing and multiplexing unit; and

the distribution pair carries the multiplexed processed signal, the multiplexed processed signal derived from the received source signal in the central processing and multiplexing unit, from the central processing and multiplexing unit to the corresponding signal receiver.

22. (new): System according to claim 21, further including input modulators which modulate the source signals output in a base band frequency from the signal sources to modulated source signals compatible with transmission on the service pair and distribution pair; and

the service pair carries the modulated source signal from the signal source to the central processing and multiplexing unit.

23. (new): System according to claim 4, wherein the input modulators modulate the source signals output in a base band frequency from the signal sources to modulated source signals compatible with transmission on the service pair and distribution pair.

24. (new): System according to claim 11, wherein the control signal input means corresponds to a receiver which is designated for receiving the processed signals from the central processing and multiplexing unit.

25. (new): System according to claim 16, wherein the up signals and the down signals are not carried by a same pair of twisted wires of the service pair and the distribution pair.

26. (new): System according to claim 16, wherein the service pair does not carry the down signals and the distribution pair does not carry the up signals.